bi−1 <u>.</u> 12, <u>ت</u> bi+1 **<<**1 bi+1,bi 出 CPASel 7, 0 ≥ 38

Tig. 1

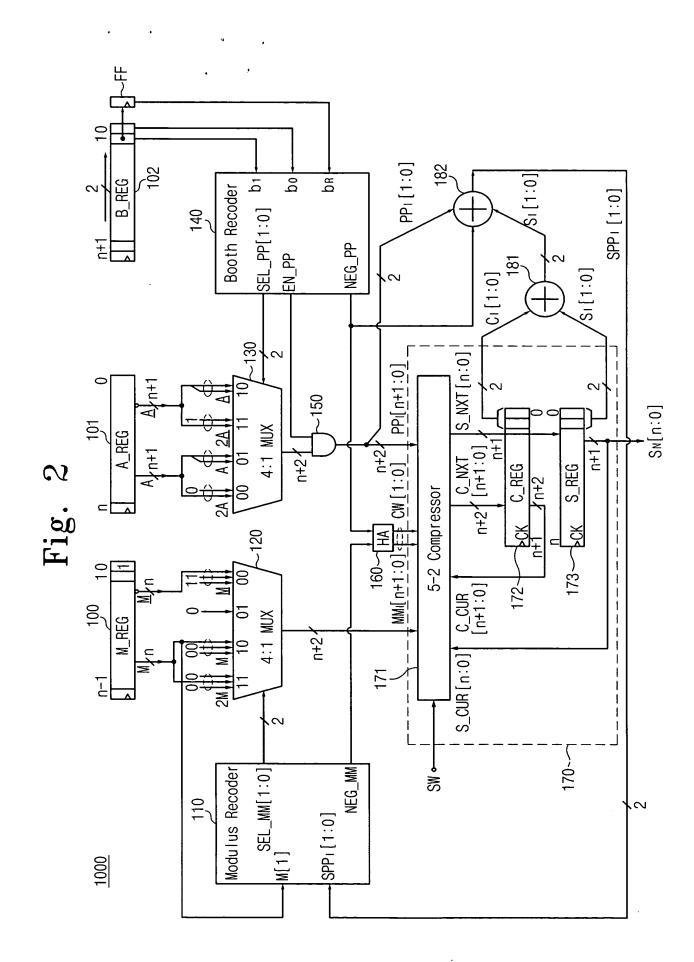


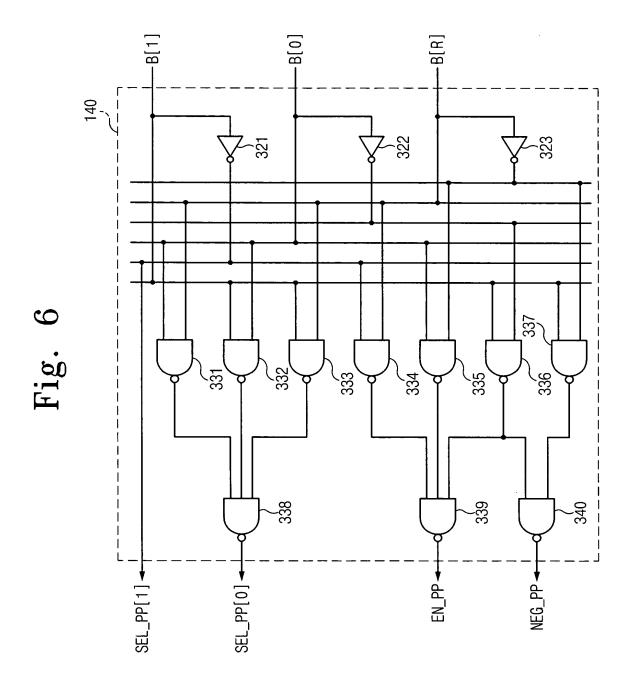
Fig. 3

| Inputs of Modulus Recoder(110)Outputs of Modulus Recoder(110)SPP,[1]SPP,[0]M[1]SEL_MM[1:0]NEG_MM |
|--|
| |
| 01 |
| 00 |
| 10 |
| 10 |
| 00 |
| 01 |

-SPP, [1] - SPP_i [0] -M[1] Z_88 Z~E 303 Fig. 4 312 314 315 311 313 316 317 NEG_MM ▲ SEL_MM[0]~ SEL_MM[1]

Fig. 5

| nputs of Boot | Booth Rec | h Recoder(140) | Outputs. | Outputs of Booth Recoder(140) | er(140) | Selected |
|----------------|----------------|----------------|-------------|-------------------------------|---------|-------------------------|
| p ₁ | ⁰ q | b _R | SEL_PP[1:0] | EN_PP | NEG_PP | PP _[[n+1:0] |
| 0 | 0 | 0 | Don't care | 0 | 0 | 0 |
| 0 | 0 | ٦ | 00 | 1 | 0 | А |
| 0 | - | 0 | 00 | . 1 | 0 | А |
| 0 | - | 1 | 10 | 1 | 0 | 2A |
| - | 0 | 0 | 11 | 1 | 1 | <u>2A</u> |
| _ | 0 | 1 | 01 | 1 | 1 | Ā |
| - | - | 0 | 01 | 1 | - | A |
| - | + | 1 | Don't care | 0 | 0 | 0 |
| | | | | | | |



~CM¹[0] ~CM¹[0] 00' 00' S₁[0] [0]'0 Cl₂ Cl₁ ~CW₁[1] ~CW¹[1] S₁[1] C₁[1] රි င် Cl₂ Cl₁ •bb[|][3] $-\frac{S_1[2]}{}$ MM_[2] CI2 Cl₁ [u]¹dd• 쥿 [u]^l2 $S_1[n]$ [u]^IWW。 65 200 HOP_{n+1} C1₂ [l+n] | qq. S_I[n] C_I[n+1] [| +u] | WW • 8 202 S_i[n] C₁[n+1] 170a 205 171a~

Fig. 8

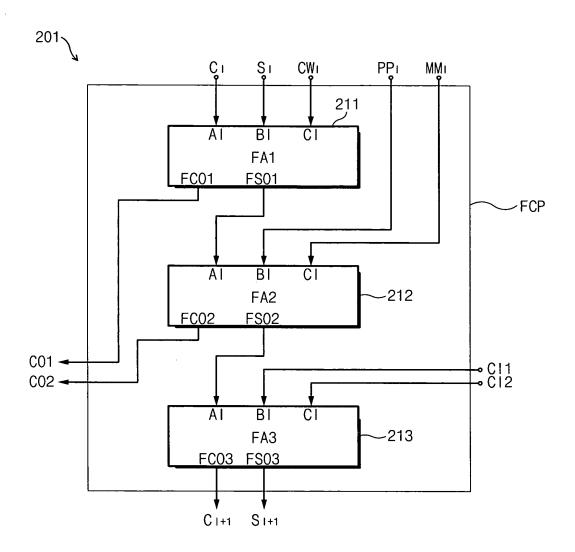
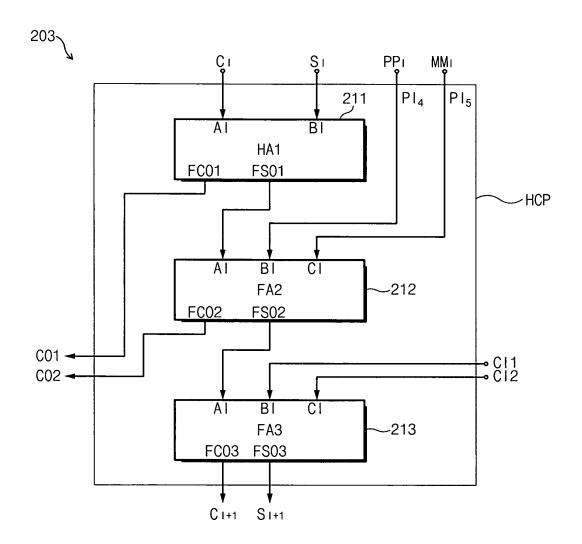
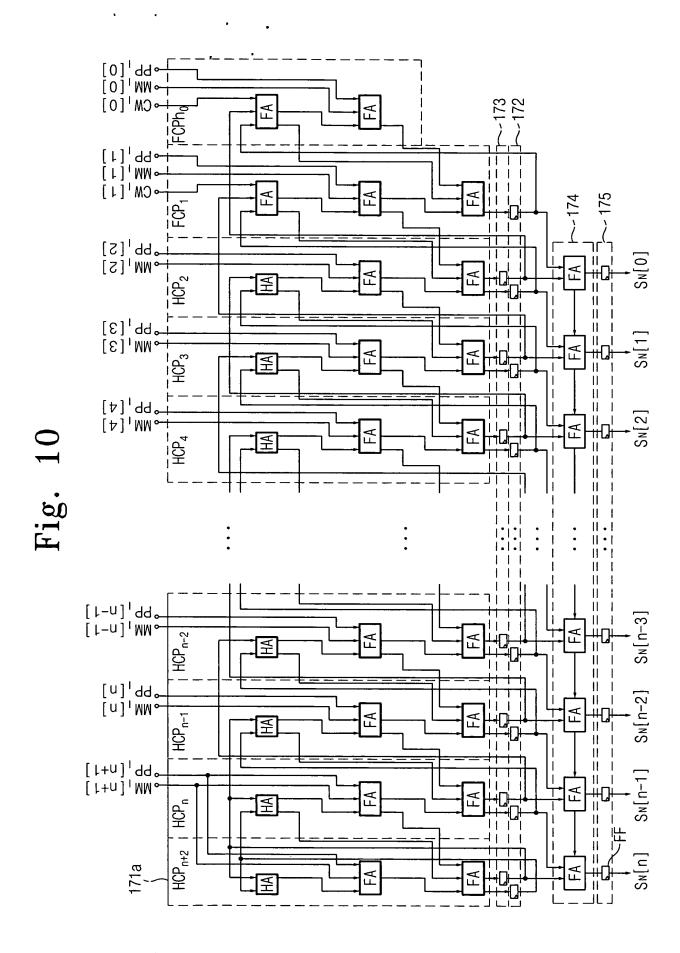


Fig. 9





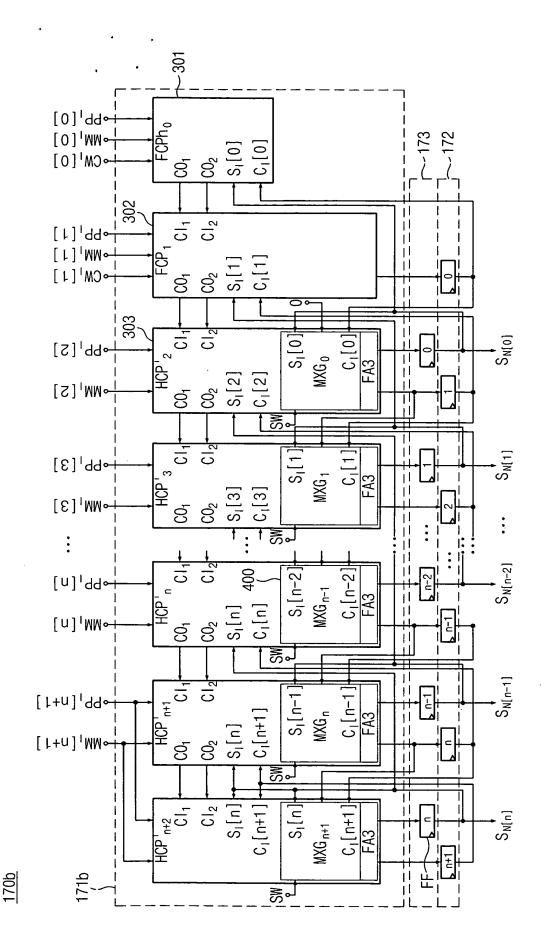
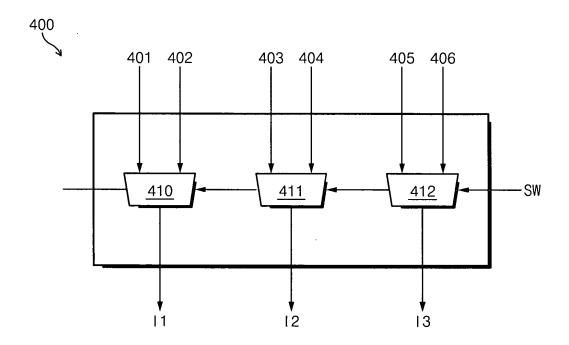


Fig. 12



~bb¹[0] ~WW¹[0] ~CM¹[0] SS • FA ~bb[|][1] ~WW[|][1] [2]|MM。 SN[0] [8] MM of [3] S_N[1] [4] MM • 1-4 [4] qq • 1-4 SN[2] Fig. 13 [r-n], MM ... SN[n-3][n]_|MM。 [n]_|qq°+ SN[n-2]FA $S_N[n-1]$ SN[n] 170b

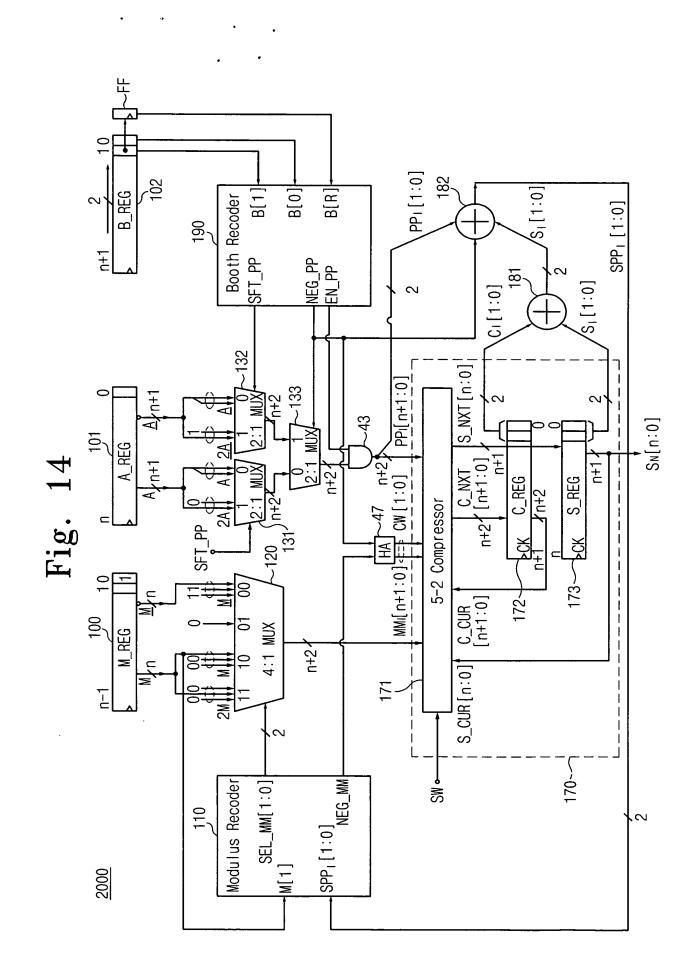


Fig. 15

| nputs of Booth Recoder(190) | oder (190) | | Outpu | Outputs of Booth Recoder(190) | oder (190) | Selected |
|-----------------------------|------------|------|--------|-------------------------------|------------|-------------------------|
| ш | B[0] | B[R] | SFT_PP | EN_PP | NEG_PP | PP ₁ [n+1:0] |
| 0 | | 0 | 0 | 0 | 0 | 0 |
| 0 | | 1 | 0 | 1 | 0 | А |
| - | | 0 | 0 | 1 | 0 | А |
| · - | | 1 | - | 1 | 0 | 2A |
| 0 | | 0 | 1 | 1 | 1 | <u>2A</u> |
| 0 | | 1 | 0 | 1 | 1 | Ā |
| - | | 0 | 0 | 1 | 1 | Ā |
| - | | ļ | 0 | 0 | 0 | 0 |

-B[1] -B[0] -B[R] 1, 190 402 40, 403 Fig. 16 418 419 SFT_PP. NEG_PP ▲ EN_PP.

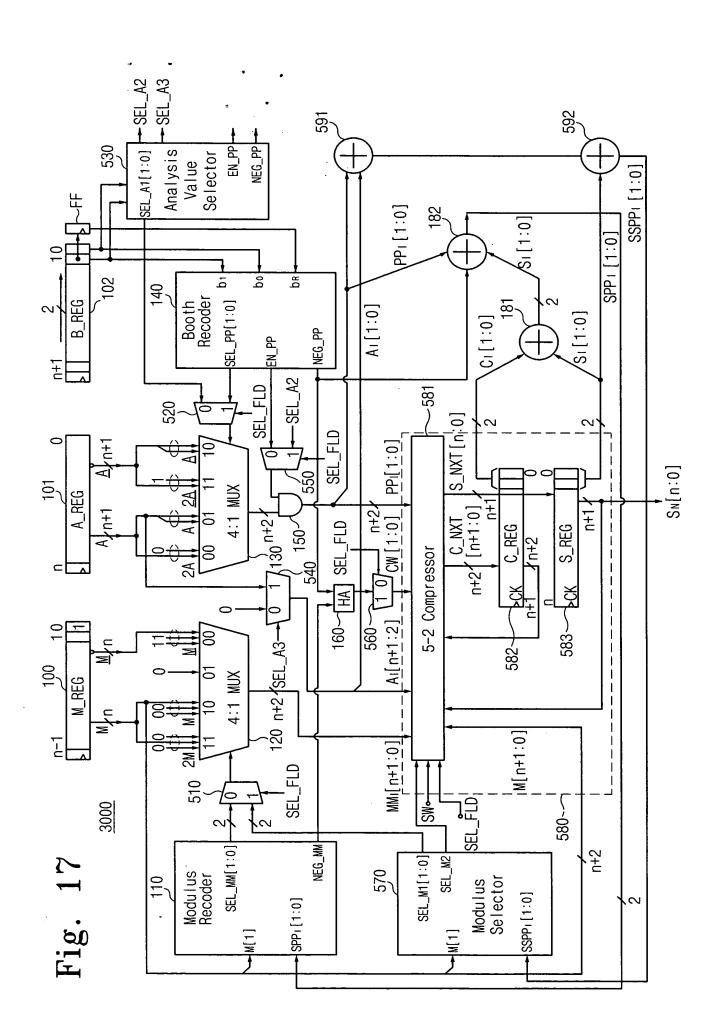


Fig. 18

| Inputs of Value Sele | Inputs of Analysis Value Selector(530) | Outputs of A | Outputs of Analysis Value Selector(530) | elector(530) | Selected First Selected Second Analysis Value Analysis Value | Selected Second Analysis Value |
|-------------------------|---|--------------|---|--------------|---|-----------------------------------|
| B[0] | B[1] | SEL_A1[1:0] | SEL_A2 | SEL_A3 | PP ₁ [n+1:0] | A ₁ [n+1:0] |
| 0 | .0 | Don't care | 0 | 0 | 0 | 0 |
| 0 | 1 | . 01 | 1 | 0 | А | 0 |
| - | 0 | 00 | - | 0 | 2A | 0 |
| - | ~ | 00 | _ | - | 2A | A |

Fig. 19

| Inputs of Moduli Selector(570) | Inputs of Modulus Selector(570) | ď | Outputs of Modu Selector(570) | Outputs of Modulus Selector(570) | Selected First Analysis Value | Selected First Selected Second Analysis Value Analysis Value |
|-----------------------------------|------------------------------------|----|----------------------------------|-------------------------------------|----------------------------------|---|
| SSPP,[1:0] | M[1] | | SEL_M1[1:0] | SEL_M2 | MM,[n+1:0] | M ₁ [n+1:0] |
| 00 | 0 | 00 | 01 | 0 | 0 | 0 |
| 10 | 0 | 01 | 10 | 0 | M | 0 |
| 10 | 0 | 10 | 11 | 0 | ZM | 0 |
| 1 | 0 | 11 | 11 | l l | 2M | W |
| 00 | - | 00 | 10 | 0 | 0 | 0 |
| 10 | 1 | 11 | . 11 | l | 2M | W |
| 10 | 1 | 10 | 11 | 0 | ZM | 0 |
| 11 | - | 01 | 10 | 0 | W | 0 |

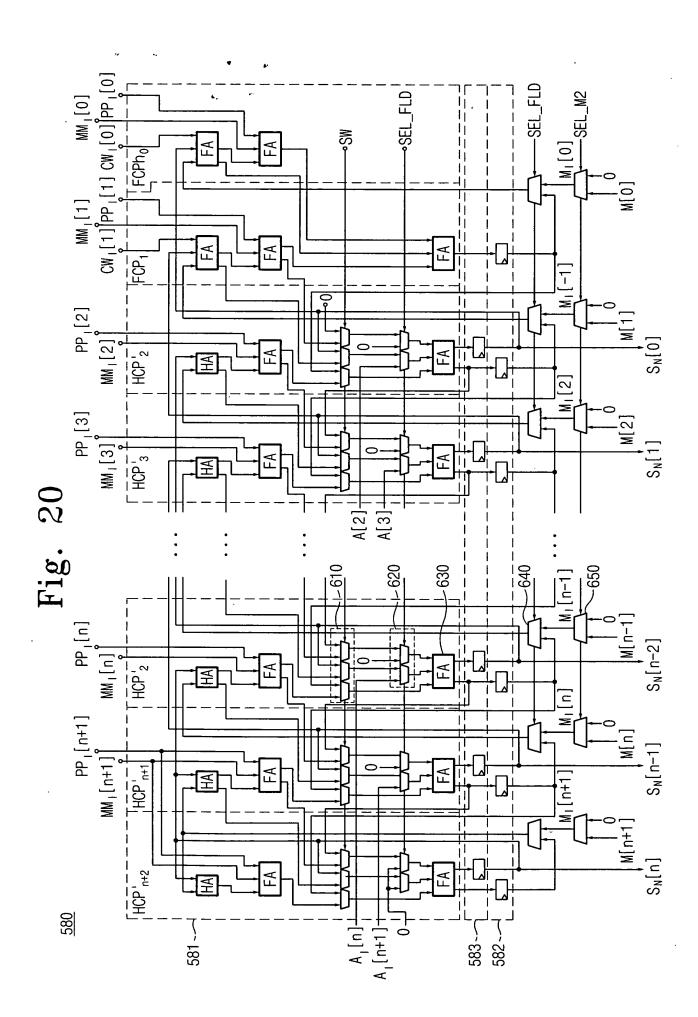


Fig. 21

